PATENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
₩ 5695-006	FOR FURTHER ACTION See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)				
PCT/SE2004/001001	23.06.2004	26.06.2003				
International Patent Classification (IPC) o	r national classification and IPC	12000012000				
	06, A61P 31/04 // A01N	31/02				
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A1:-						
Applicant						
Ambria Dermatology AB	et al					
This report is the international pre-	eliminary examination report, established by th	is International Proliminary Evamining				
Authority under Article 35 and tr	ansmitted to the applicant according to Article	36.				
2. This REPORT consists of a total	of 6 sheets, including this cove	r sheet.				
3. This report is also accompanied b	y ANNEXES, comprising:	1				
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	t and to the International Bureau) a total of	sheets, as follows:				
and/or sneets	description, claims and/or drawings which have containing rectifications authorized by this Average in the containing rectifications and the containing which we contain the containing the containing and containing an	re been amended and are the basis of this report athority (see Rule 70.16 and Section 607 of the				
1		rity considers contain an amendment that goes				
beyond the discussion of the d	isclosure in the international application as file	d, as indicated in item 4 of Box No. I and the				
b. (sent to the Internation	onal Bureau only) a total of (indicate type and	number of electronic carrier(s))				
	containing a sequence listing	and/or tables related thereto, in alastonia				
Administrative Instru	ed in the Supplemental Box Relating to Seque	nce Listing (see Section 802 of the				
4. This report contains indications re	elating to the following items:					
Box No. I Basis o	of the report					
Box No. II Priority	/					
Box No. III Non-es	tablishment of opinion with regard to novelty,	inventive step and industrial applicability				
	f unity of invention	,				
Box No. V Reason	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial					
Box No. VI Certain	applicability, citations and explanations supporting such statement Box No. VI Certain documents cited					
Box No. VII Certain	land					
Box No. VIII Certain observations on the international application						
Date of submission of the demand Date of completion of this report						
de alle and an	Date of completion	of this report				
31.03.2005	27 00 200	_				
Name and mailing address of the IPEA/S		27.09.2005				
Patent- och registreringsverket						
Box 5055 S-102 42 STOCKHOLM						
Facsimile No. +46 8 667 72 88		Eva Johansson/EÖ				
Form PCT/PEA/409 (cover sheet) (April 2005)						

International application No.

PCT/SE2004/001001

Box	No. I	Basis of the report					
1.	With r	regard to the language, this report is based on:					
	\boxtimes	the international application in the language in which it was filed					
		a translation of the international application into which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule 12.4(a))					
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	furnis	regard to the elements of the international application, this report is based on (replacement sheets which have been hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" re not annexed to this report):					
	\boxtimes	the international application as originally filed/furnished					
		the description:					
	<u></u>	pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the claims:					
		pages as originally filed/furnished					
		pages* as amended (together with any statement) under Article 19					
		pages* received by this Authority on					
•		pages* received by this Authority on					
	Ш	the drawings:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
ì		the description, pages					
1		the claims, Nos.					
1		the drawings, sheets/figs					
1		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
1		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	If it	tem 4 applies, some or all of those sheets may be marked "superseded."					
<u> </u>							

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
the entire international application				
claims Nos. 1-4				
because:				
the said international application, or the said claims Nos. 1-4				
relate to the following subject matter which does not require an international preliminary examination (specify):				
See PCT Rule 67.1.(iv).: Methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic				
methods.				
the description, claims or drawings (indicate particular elements below) or said claims Nos.				
are so unclear that no meaningful opinion could be formed (specify):				
the claims, or said claims Nos. are so inadequately supported				
by the description that no meaningful opinion could be formed (specify):				
no international search report has been established for said claims Nos. a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time				
limit:				
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form an				
manner acceptable to it. furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the				
Administrative Instructions, and such listing was not available to the International Preliminary Examining Author in a form and manner acceptable to it.				
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule				
13ter.1(a) or (b) and 13ter.2. a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within				
the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary				
Examining Authority in a form and manner acceptable to it.				
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.				
See Supplemental Box for further details.				

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims Claims	5-18	YES NO
Inventive step (IS)	Claims Claims	5-18	YES NO
Industrial applicability (IA)	Claims Claims	5-18	YES NO

2. Citations and explanations (Rule 70.7)

The following documents are cited in the International Search Report are:

D1 WO 0107003 A1

D2 WO 9015597 A1

D3 Zadeh, Hossein Sedghi, et al "Inhibitors of microbial growth. Limits and efficacy" Cosmetic Technology (Milano Italy), 2001, 4(3), pages 43-48.

D4 EP 1166762 A1 (page 5 paragraph [0038] table 1)

D5 WO 93 20812 A1

D6 US 5879690 A1

D7 US 5550145 A1

The problem to be solved by the present application is to find a method for inhibiting the growth of multiple-resistant bacteria. This is solved by using a composition comprising 15% of weight or more of pentane-1,5-diol.

D1 discloses a cosmetic composition comprising elastomer, siloxane, water and from 0.1 to 40% by weight of pentylene glycol. The composition is an elastomer emulsion with improved phase stability as a result of the presence of pentylene glycol. The composition is also microbiologically preserved through the addition of pentylene glycol. No other traditional preservatives are needed (see particular page 11 lines 7-10). The addition of pentylene glycol is from 0.1 to 40% by weight, preferably from 0.8 to about 20%, and optimally from 1 to 8% 10 lines 16-18 weight. On page it is said "preservatives can desirably be incorporated into the

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

compositions of this invention to protect against the growth of potentially harmful micro organisms".

D2 discloses a preparation for topical treatment of infections caused by virus, bacteria and fungi. The preparation contains pentane diol or hexane diol as active substance. Pentane-1,5-diol is preferred as active substance in the composition. In one example pentane-1,5-diol is diluted in ethanol to give a solution containing 50% diol and 50% ethanol. Other solvents for the diol are water or ether. The concentration of the diol can vary from a high dilution to a concentrated form. From D2, it is also shown that pentane-1,5-diol is active against Staphylococcus aureus, one of the mentioned bacteria in the application.

D3 discloses different cosmetic compositions and to protect these against the growth of micro organisms, pentylene glycol is added to the compositions. Pentylene glycol is defined as an agent against micro organisms in table 1 and table 2.

D4 discloses compositions containing mineral water. From the description on page 5 paragraph 0039, it is said that the compositions might also comprise antioxidants and preservatives. As a preservative, pentylene glycol is used with a weight % of 20 (table 1, page 6).

D5 discloses an antimicrobial composition which contains pentylene glycol. Pentylene glycol is used to preserve the product against microbial contamination and to use the product in the treatment of antimicrobial infections.

D6 and D7 disclose the general state of the art and are not considered to be particular relevant.

The claimed invention is not disclosed from D1-D7, thus the invention in claims 5-18 is novel.

Document D1, which is considered to represent the most relevant state of the art, which solves the same problem as the claimed invention, differs in that it is a cosmetic

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

composition instead of a pharmaceutical composition and that the highest weight % of pentylene glycol is 10. There is no information in the application that 15% by weight of pentan-1,5-diol (pentylene glycol) solves a different problem than 10% by weight of pentan-1,5-diol in D1.

The problem to be solved is inhibiting the growth of multipleresistant bacteria. This is solved by using a composition comprising 15% of weight or more of pentane-1,5-diol.

D2 shows that pentane-1,5-diol is active against Staphylococcus aureus one of the mentioned bacteria in the application and can be used in higher concentration than 15%.

To a person, who is acquainted with diols and their use as preservatives and antimicrobials, and with knowledge from D1 and D2, it would be obvious that a composition comprising 15% of weight or more of pentane-1,5-diol will solve the problem of inhibiting the growth of multiple-resistant bacteria.

Thus, claims 5-18 lack inventive step.